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straightly forwards, the second joint is thick and they are not curved upwards and are shorter than in *Hypena*. The wings are wide not narrow as in *Sisyrhypena*. The whole insect in size, form and appearance recalls the Bombycid *Orgyia leucostigma*.

Pseudorgyia versuta, n. s.

♂.—The thorax, head and palpi above have a grayish cast and this shade spreads over the primaries at base. Wings concolorus, blackish fuscous; no markings except the median lines on primaries, the t. p. line flexuous, occupying the relative position that it does in *Bomolocha*, the t. a. line faint, arcuate. Two black points, pupilled with pale, on the cell take the place of the stigmata. Hind wings nearly black, as are both the immaculate wings beneath. Antennae subtestaceous; palpi darker at the sides. Fringes concolorous with the wings.

Expanse, 28 m. m. *Hab.*, Texas (Belfrage).

GEOMETRAE.

Crochiphora coloraria, var. sphaeromacharia.

♂.—Antennae pectinate, palpi erect, thorax olivaceous above and dusky yellow below, abdomen dusky yellow and tinted with olivaceous above. Costa dotted with faint minute black spots. Primaries olivaceous; t. a line purple, exserted outwardly superiorly on the cell, median shade line very indistinct, t. p. line purple, passing downwards and inwards, on its outer border shaded into red, outside of it two large round black spots, one at the center, between veins 3 and 4, and the other at posterior border of wing, small dash at apex, fringes concolorous, the whole surface covered with minute black points. Below, yellow sprinkled with dark brown, a dash at discal cell, markings of the t. p. line and the two spots of the upper surface, clearly defined. Secondaries, light straw color, t. p. line continuous from primaries, small dash near anal angle, below the t. p. line olivaceous, whole surface mottled. Below, concolorous with under surface of primaries, presenting same mottled appearance, discal spots black, three transverse brown lines equidistant in middle third, at superior angle three black spots almost forming a line.

Expanse, 36 m. m. *Hab.*, Alabama (Mr. Grote).

It differs from *coloraria* in the heavier ornamentation of the t. p. line, and the two round spots posterior to it.

Dr. Packard does not consider the remarkable specimen as being specifically distinct from *coloraria*.

XXII. Synopsis of the Discomycetous Fungi of the United States

BY M. C. COOKE, M. A.

THE time appears to me to have arrived for making an attempt at obtaining some estimate of the Fungi which have already been detected in the United States, for the purpose of preparing, in some form or other, a guide to the Mycologic Flora. As a preliminary step I have been induced to publish, as speedily as I can prepare them, consecutive lists of groups and sections, such as the present, which, however imperfect it may be, is the best which the materials at my disposal enable me to accomplish. In order to render these lists of real utility in attaining their object, the co-operation of Mycologists in all the States must be earnestly solicited. What I would desire of them is correction and addition, especially of localities, and, since many of the species of Schweinitz still require confirmation, they may be able to furnish this confirmation. All specimens would be acceptable, as helping to a knowledge of the Fungi of the States, and their distribution; credit being invariably given, either in revised lists, or in the Flora when published, to all who have rendered such aid, their names being inserted, as in the present instance, not only as a guarantee of accuracy, but as a well merited recognition of services rendered. Revisions and additions, as well as specimens, named or unnamed, but localized, are requested to be sent to the address here named.

No. 2 GROSVENOR VILLAS, JUNCTION ROAD,
LONDON, N., ENGLAND.

SYNOPSIS DISCOMYCETUM.

Order I. **HELVELLACEI** *Fr.*

Gen. 1. **MORCHELLA** *Dill.*

1. **Morchella esculenta** *Fr.* On the ground. Ohio (Lea); N. Y. (Peck); N. Eng. (Sprague).
   var. CONICA *P.* Rhode Isl. (Berk.); Ohio (Lea); Penns. (Coultas).
2. **Morchella elata** *Fr.* On the ground. N. Eng. (Sprague).
3. **Morchella foraminulosa** *Schwz.* On the ground. Car. (Sch.).

Gen. 2. **GYROMITRA** *Fr.*

1. **Gyromitra esculenta** *Fr.* On the ground. Car. (Rav.); N. Eng. (Sprague); Maine (E. C. Bolles); Ohio (Lea); N. Y. (Schw.).
2. **Gyromitra Caroliniana** (*Schwz.*). Earth in woods. Car. (Schw.); Mass. (Brit. Mus.).

Gen. 3. **HELVELLA** *Fr.*

1. **Helvella crispa** *Fr.* In pine woods. Car. (Curtis); N. Eng. (Sprague); N. Y. (C. E. Peck).
2. **Helvella lacunosa** *Afz.* On the ground. Car. (Curtis); Alabama (Curt.).
3. **Helvella sulcata** *Afz.* In shady woods. Car. (Curtis); N. Y. (Peck).
   var. PALLESCENS *Schæff.* N. Y. (W. R. Gerard).
4. **Helvella infula** *Fr.* On the ground. Car. (Schw.); N. Y. (Peck).
5. **Helvella monachella** *Fr.* On the earth. N. Eng. (Sprague).
6. **Helvella costata** *Schwz.* In sandy ground. Car. (Schw.; Curt.).
7. **Helvalla atra** *König.* On soil. Car. (Ravenel).
8. **Helvella elastica** *Bull.* On the ground. N. Y. (Peck).
9. **Helvella ephippium** *Lev.* About trunks. Car. (Curt.); N. Eng. (Frost); Virg. (Curt.).

Gen. 4. **MITRULA** *Fr.*

1. **Mitrula paludosa** *Fr.* In swamps. Alabama (Beaumont); Car. (Curt.); N. Y. (Peck); N. Jersey (Ellis).
2. **Mitrula lutescens** *Berk.* In damp places. Yellow, somewhat viscid, stem solid, squamose, sporidia oblong, slightly curved, 5–nucleate (.035 m. m.). Car. (B. & C.).
3. **Mitrula inflata** *Schwz.* (Schwz.)
4. **Mitrula crispata** *Fr.* N. Eng. (Sprague).
5. **Mitrula exigua** *Fr.* On dejected stems. Car. (Schwz.).
6. **Mitrula elegans** *Berk.* Clubs small, obovate, stem very long. United States (Green).

Gen. 5. SPATHULARIA *Pers.*

1. **Spathularia flavida** *P.* In fir woods. Maine (Curt.).

Gen. 6. LEOTIA *P.*

1. **Leotia circinans** *Pers.* In woods. Car. (Schwz.).
2. **Leotia lubrica** *Pers.* In moist woods. Car. (Curt.); N. Y. (Peck).
3. **Leotia chlorocephala** *Schwz.* In damp sandy woods. Car. (Rav.); Penn. (Michener); N. Eng. (Frost).
4. **Leotia viscosa** *Fr.* In damp sandy woods. Car. (Rav. iv, 22).
5. **Leotia lutea** (*Vibrissea lutea* Peck). N. Y. (Peck).
6. **Leotia infundibuliformis** *Schwz.* (Species uncertain). N. Y. (Schwz.).

Gen. 7. CIDARIS *Fr.*

1. **Cidaris caroliniana** (*Verpa* Schwz.) *Fr.* Car. (Schwz.).

Gen. 8. GEOGLOSSUM *P.*

a. Sporidia hyaline.

1. **Geoglossum microsporum** *C. & P.* N. Y. (Peck).
2. **Geoglossum flavum** *Peck.* N. Y. (Peck).
3. **Geoglossum viride** *P.* Car. (Curt.).

b. Sporidia colored.

4. **Geoglossum hirsutum** *Pers.* In wet ground. Car. (Curt.); La. (Hale); N. Y. (Peck).
5. **Geoglossum glabrum** *Pers.* (*Geoglossum simile* Peck). Damp mossy ground. Car. (Schw.); N. Jersey (I. B. Ellis).
6. **Geoglossum Peckianum** *Cooke.* (*G. glutinosum* Peck). N. Y. (Peck); N. Eng. (Murray).
7. **Geoglossum difforme** *Pers.* In wet ground. Car. (Curt.); N. Eng. (Murray; Frost).

Sporidia uncertain.

8. **Geoglossum rufum** *Schwz.* (Schw.).
9. **Geoglossum farinaceum** *Schwz.* In meadows. Car. (Schwz.).

Gen. 9. PEZIZA.

Series I. ALEURIA *Fr.*

Sect. 1. MACROPODES.

1. **P. acetabulum** *Linn.* On the ground. Car. (Curt.); Ohio (Lea); N. Eng. (Frost).
2. **P. sulcata** *Pers.* On the ground. (Schwz.).
3. **P. cinnamomeo-lutescens** *Schwz.* Amongst leaves. Car. (Schwz.).
4. **P. mitrula** *Schwz.* Amongst leaves. Car. (Schwz.).

5. **P. hesperidea** *C. & P.*, Grev. 1, pl. 1, fig. 1. Amongst leaves. N. Y. (Peck).
6. **P. macropus** *P.* On the ground. Car. (Schw.; Curt.); N. Y. (Peck).
7. **P. rapulum** *Bull.* On the ground. Car. (Curt.).
8. **P. sordescens** *B. & C.* On the ground. Cups expanded (1 inch or more), at first orange yellow, disc bay; stem cylindrical, pallid, tomentose; sporidia elliptic, binucleate (.0005 inches). N. Eng. (Murray; Frost.)
9. **P. pallidula** *C. & P.* On old beech wood. Thin, wholly pallid, waxy; cup infundibuliform, at length flattened, nearly smooth; stem at first distinct, then abbreviated, pruinose, margin slightly incurved; asci cylindrical, sporidia elliptical (.0005 × .00035). N. Y. (Peck, No. 309).

Sec. 2. Cochleatae.

10. **P. aurantia** *Fr.* On the ground. Ohio (Lea); N. Y. (Peck); N. Eng. (Sprague).
11. **P. onotica** *P.* On the ground in woods. Car. (Schwz.).
    [**P. unicisa** *Peck.* Appears to be a form of *P. onotica*]. N. Y. (Peck).
12. **P. obtecta** *Schwz.* Amongst rotten leaves. Car. (Schwz.).
13. **P. fulgens** *P.* In pine woods. Mass. (Schwz.).
14. **P. cochleata** *Linn.* On the ground amongst grass. Car. (Schw.; Curt.); N. Y. (Peck); N. Eng. (Sprague); Maine (Curt.).
15. **P. venosa** *P.* On the ground. Car. (Schwz.).
16. **P. costata** *Fr.*, Nov. Sym. On the ground. Ohio (Lindblom).
17. **P. clypeata** *Schwz.* Amongst leaves. Car. (Schwz.).
18. **P. badia** *P.* In damp places. Car. (Schwz.); N. Y. (Peck).
19. **P. griseo-rosea** *Gerard.* On ligneous earth. Sessile (1 inch); cup fleshy, rather thin, hemispherical, then expanded, externally greyish ochre, rather mealy; disc pale rosy, subochraceous; asci cylindrical; sporidia elliptical, rough (.015–.018 × .007–.01 m. m.). N. Y. (Gerard No. 41).
20. **P. atrovinosa** *Cooke.* On ground amongst grass. Sessile (1–3 inches); cup-shaped, then expanded and flattened smooth, dark vinous brown; disc of the same color; asci cylindrical, sporidia elliptical rugose (.0005 × .0003 inches). New Jersey (Ellis).
21. **P. suceosa** *Berk.* On moist earth. Car. (Curt.); Conn. (Wright).
    [***P. Schweinitzii** *B. & C.* Is undescribed and unknown to Rev. M. J. Berkeley].

Sec. 3. Cupulares *Fr.*

a. Pustulatae.

22. **P. repanda,** var. *amplispora.* N. Y. (Peck).
23. **P. vesiculosa** *Bull.* On manured soil. Car. (Schw.); N. Eng. (Sprague); N. Y. (Peck).
24. **P. bufonia** *Pers.* In woods. Car. (Schw.).
25. **P. micropus** *P.* On earth. Car. (Schw.).
26. **P. pustulata** *Fr.* On trunks. Car. (Schw.); Ohio (Lea).

b. Cupulatae.

27. **P. catinus** *Holms.* On rotten wood. Car. (Schw.).
28. **P. carbonaria** *A. & S.* On burnt soil. Bethlehem (Schw.).
29. **P. pulchra** *Gerard.* Under pines. N. Y. (Gerard).
30. **P. cupularis** *Fr.* On burnt ground. Car. (Curt.); N. Eng. (Frost).
31. **P. diluta** *Fr.* On the ground. Bethlehem (Schw.).
32. **P. applanata** *Fr.* Bethlehem (Schw.).
33. **P. fuliginea** *Sch.* Bethlehem (Schw.).
34. **P. irrorata** *B. & C.* On soil. Cup-shaped, at length flattened, fuliginous (1 inch), broadly fixed beneath; sporidia uniseriate, elliptic, at length rough (.0004 inches); paraphyses clavate. Texas (M. J. B.).
35. **P. violacea** *Fr.* Amongst Kalmias. Car. (Schw.).
36. **P. membranacea** *Sch.* Bethlehem (Schw.).
37. **P. Spraguei** *B. & C.* On rotten wood. Flattened, margin incurved, externally pallid tomentose; disc rufous (¾ inches); asci linear, obtuse; sporidia elliptic, uniseriate (.0005 inches). Maine (Sprague); Car. (Curt.); N. Eng. (Frost).

[***P. velutina** *B. & C.* On ligneous earth. Undescribed and uncertain.]

38. **P. Petersii** *B. & C.* On burnt soil. Gregarious, crispate, externally pallid; disc bay-brown; sporidia elliptical, narrow, binucleate (.00038 inches); cups 1 inch or more. Alabama (Peters).
39. **P. decolorans** *B. & C.* On the ground. Cups small, obconical, whitish, then fuliginous; sporidia elliptical, binucleate (.00057 inches). Ala. (Peters).
40. **P. microspora** *B. & C.* On rotten wood. Small, gregarious, crowded and irregular, fleshy, fragile, externally pallid, pruinose, internally orange-yellow; stem very short or obsolete; sporidia small, elliptic, even, binucleate (.00028 inches). Car. (Rav.).

Sect. 4. HUMARIA.

a. Sphaerosporae.

40½. **P. sphaeroplea** *B. & C.* On burnt earth. Orange, pateraeform (2 lines), thinly clad with articulated flocci, asci linear, obtuse, paraphyses filiform, simple or branched, sporidia uniseriate (.0005 in). Car. (Curt).
41. **P. hinnulea** *B. & Br.* (*P. psammophila* B. & C.). On soil amongst grass, Car. (Curt).
42. **P. Wrightii** *B. & C.*, on trunks. Texas (M. J. B.).
43. **P. exasperata** *B. & C.* On burnt earth. Scarlet. Cups subglotose (½ inch) externally verruculose, margin inflexed. Sporidia globose, echinulate (.0005 in). Alabama (Peters).

b. Ellipsisporae.

44. **P. omphalodes** *Bull.* On burnt ground. Car. (Schw.; Curt.)
45. **P. melaloma** *A. & S.* On burnt ground. Car. (Curt); Conn. (Wright).
46. **P. granulata** *Bull.* On cow dung. Car. (Schw.); N. Y. (Peck).

47. **P. adusta** *C. & P.* On burnt ground. Gregarious or scattered. Cups subglobose, then open and hemispherical, at length plane, (1 line,) somewhat irregular when dry, brown, with a few radiating fibrils at the base; disc amber yellow; Asci cylindrical, sporidia elliptic, binucleate (.00066 × 00035 in.), paraphyses clavate, brownish. New York (Peck.)
48. **P. humosa** *Fr.* On the ground. N. Eng. (Frost).
49. **P. araneosa** *Bull.* Nazareth (Schw.).
50. **P. leucoloma** *Hedw.* Amongst moss. N. Y. (Peck). Car. (Schw.).
51. **P. rutilans** *Fr.* On the ground. Car. (Schw.).
52. **P. rubricosa** *Fr.* On earth. Car. (Schw.). N. Y. (Peck).
53. **P. glumarum** *Desm.* On rotting chaff. N. Eng. (Frost).
54. **P. ollaris** *Fr.* In pine woods. Car. (Schw.). Conn. (Wright).
55. **P. convexula** *Pers.* (*P. chrysophthalma* Gerard). N. Y. (Gerard).
56. **P. cremoricolor** *B.* On human ordure. Minute, flattened, pallid (1. line), paraphyses linear. Sporidia elliptic, even (.0006 in.). Car. (Curt.).
57. **P. spissa** *Berk.* On the ground. Cups irregular (¾ in.) margin lobed; disc thick, bay, stem very short, whitish, sporidia elliptic, binucleate (.00057 in.). Ala. (Peters).
58. **Peziza Gerardi** *Cooke* (*Peziza violacea* Gerard). On the ground. Violaceous, sessile, fleshy. Cups hemispherical then flattened (2 lines broad), externally greyish violet, disc brighter. Asci cylindrical (.23 m. m. long). Sporidia fusiform (.032—035 × .008—009 m. m.), with a central nucleus, paraphyses filiform clavate at the tips. N. Y. (Gerard).

Series II. LACHNEA.

Sect. 1. SARCOCYPHAE.

58½. **P. coccinea** *Jacq.* On fallen limbs. Car. (Curt.). N. Y. (Peck).
59. **P. floccosa** *Schw.* On fallen limbs. N. Y. (Peck). Ohio (Lea).
60. **P. occidentalis** *Schw.* On branches. Ohio (Lea.; Schw.).
61. **P. tomentosa** *Schw.* On wood. Car. (Schw.).
62. **P. semitosta** *B. & C.* On the ground. Umber, internally bay brown. Cup hemispherical (1½ inch), produced into a rugose costate stem, margin inflexed, externally velvety, sporidia subfusiform, granulated (.00117 in.). Penn. (Mich.).
63. **P. pubida** *B. & C.* On the ground. Cups crowded, hemispherical (¾ inch), margin inflexed externally and short stem velvety, paraphyses brown sporidia fusiform, granulated (.001—0015 in.). Ala. (Peters).
64. **P. hirtipes** *Cooke.* On branches. Fleshy, cupshaped, substipitate. Cup (1-2 in.) hemispherical, dark brown, pubescent, margin incurved, disc paler, stem very short, nearly obsolete, attached by long shining, black hairs. Asci cylindrical, sporidia elliptical, paraphyses simple or furcate. Maine (E. C. B.).
65. **P. stygia** *B. & C.* Sides of moist banks. Small, black, cup turbinate, externally slightly hispid (½ inch), disc plano-concave, dark olivaceous, stem long, rooting, paraphyses linear, curved at the tips; sporidia globose, even. Car. (M. J. B.).

66. **P. pusio** *B. & C.* On the soil. Cups hemispherical, with a thick, at length smooth stem, running into the cup in costate veins (1–1½ lines). Externally whitish, internally orange. Texas (Wright).
67. **P. alphitodes** *Berk.* On bark amongst moss ; cups hemispherical, hispid as well as the elongated stem, margin undulated, sporidia subfusiform (.0004 in.). N. Eng. (Murray).
68. **P. nigrella** *Pers.* On wood and earth. Car. (Schw.). N. Y. (Peck).
69. **P. hemispherica** *Wigg.* On wood and earth. Car. (Schw.; Curt.); N. Y. (Peck). Maine (Curt.).
70. **P. brunnea** *A. & S.* On burnt ground. Car. (Schw.).
71. **P. pellita** *C. & P.* (Grev. 1. pl. 1, fig. 3.) On soil. N. Y. (Peck).
72. **P. confusa** *Cooke* (*Peziza brunnea* Karsten). On the ground. N. Y. (Gerard). Sporidia globose .015, m. m.
73. **P. fusicarpa** *Gerard.* Amongst moss. N. Y. (Gerard).
74. **P. carneo-rufa** *Mart.* On the ground. (Schw.).
75. **P. albo-cincta** B. & *C.* On the ground. Cups scarlet (1. line), concave, externally and margin furnished with snow white flocci. Sporidia elliptic, echinulate (.0008 × .0006 in.). Car. (Rav.). N. Eng. (Murray).
76. **P. Texensis** *B. & C.* Cups flattened, dingy orange; externally beset with a few pallid fusiform septate bristles, which are bulbous at the base, margin ciliate ; sporidia elliptic, coarsely granulated (.0006 in). Texas (Wright).
77. **P. setosa** *Nees.* On trunks. (Schw.).
78. **P. erinaceus** *Schw.* On rotten trunks. Car. (Schw.).
79. **P. scutellata** *L.* On wood &c. Mass. (Curt.).; Car. (Schw., Curt., Rav.); Maine (Bolles); Ohio (Lea).
80. **P. stercorea** *P.* On dung and rich soil. Car. (Schw.); N. Y. (Peck).
81. **P. theleboloides** *A. & S.* On spent hops, manure &c. Car. (Schw.); N. Y. (Peck).
82. **P. diversicolor** *Fr.* On dung. Car. (Schw.); N. Eng. (Sprague).
83. **P. decipiens** *B. & C.* On pine leaves (species undescribed).

Sect. II. Dasyscyphae,

a. Sessiles.

84. **P. hyalina** *P.* On wood. Car. (Schw.).
85. **P. papillaris** *Fr.* On wood and bark. Car. (Schw.).
86. **P. variecolor** *Fr.* On stems, trunks &c. Car. (Schw.; Curt.).
87. **P. triformis** *Fl. Dan.* On *Rhus* wood. Bethlehem (Schw.).
88. **P. balsamicola** (*Nodularia balsamicola* Peck). On bark of Balsam. N. Y. (Peck).
89. **P. flammea** *A. & S.* (*P. maculincola* Schw.). On branches. (Schw.).
90. **P. leonina** *Schw.* On Elm wood. Car. (Schw.).
91. **P. cinnabarina** *Sch.* On wood of *Liquidambar*. Car. (Schw.).
92. **P. flavo-fuliginea** *A. & G.* On rotten wood. Car. (Schw.)
93. **P. fulvo-cana** *Schw.* On disc of stump. Car. (Schw.).
94. **P. virescens** *A. & S.* On stems. Bethlehem (Schw.).
95. **P. incarnescens** *Sch.* On decorticated wood. Bethlehem (Schw.).

96. **P. Schumacheri** *Fr.* On stumps. Bethlehem (Schw.).
97. **P. atrofuscata** *Schw.* On wood. Bethlehem (Schw.).
98. **P. hispidula** *Schr.* On *Sambucus.* Penns. (Schw.).
99. **P. corvina** *Pers.* On wood. Bethlehem (Schw.).
100. **P. subochracea** *C. & P.*, in Grev. 1, pl. 1, fig. 4. On *Rubus.* N. Y. (Peck).
101. **P. rufo-olivacea** *A. & G.* On stems of *Rubus.* Car. (Schw.).
102. **P. vitis** *Schwz.* On bark of *Vitis.* (Schw.).
103. **P. roseola** *Schw.* On stems. Bethlehem (Schw.).
104. **P. penicillata** *Schw.* On bark of *Vitis.* Car. (Schw.).
105. **P. corticalis** *Pers.* On bark. Car. (Schw.).
106. **P. spadicea** *Pers.* On wood. Bethlehem (Schw.).
107. **P. cinereo-fusca** *Schwz.* On wood and bark. (Schwz.).
108. **P. Eupatorii** *Schw.* (*P. solenia* Peck). On *Eupatorium.* Bethlehem (Schw.). N. Y. (Peck).
109. **P. sulphurea** *P.* On chips and stems. Car. (Schw.; Curt.).
110. **P. relicina** *P.* On herbaceous stems. Bethlehem (Schw.).
111. **P. fuscobarbata** *Schw.* On stems of *Verbascum.* Bethlehem (Schw.).
112. **P. rufiberbis** *Schw.* On stems. Bethlehem (Schw.).
113. **P. strigosa** *P.* On stems of Umbellifers. Car. (Schw.).
114. **P. comata** *Schw.* On oak leaves. N. Y. (Peck). (Schw.).
115. **P. pollinaria** *Cooke.* On oak leaves. Epiphyllous, subgregarious, minute soft, sessile, pallid, clad with very short pulverulent white hairs, resembling white meal; cups globose, at length opening by a small central orifice; asci cylindrical; sporidia elliptical, minute. N. Jersey (Ellis 2158).
116. **P. marginata** *Cooke.* On oak leaves &c. Scattered or gregarious, brownish, sessile, fringed at the margin with septate brown hairs, disc paler; asci cylindrical, minute; sporidia spermatozoid. N. Jersey (Ellis 2151).
117. **P. episphaeria** *Mart.* On *Hypoxylon.* Bethlehem (Schw.).

[**P. villosa** *P.* is a *Cyphella*, as also *P. albo-violascens* and *P. punctiformis* Fr.]

b. Stipitatae.

118. **P. nivea** *Fr.* On wood. Car. (Curt.). N. Y. (Peck).
119. **P. ochracea** *Schw.* On pine wood. Penn. (Schw.).
120. **P. cerina** *Pers.* On wood, palings &c. Car. (Curt.).
121. **P. calyculaeformis** *Sch.* On rotten wood. Bethlehem (Schw.).
122. **P. virginea** *Batsch.* On sticks, twigs &c. Car. (Schw.; Curt.); N. Y. (Peck).
123. **P. bicolor** *Bull.* On oak twigs, &c. (Schw.).
124. **P. calycina** *Sch.* On pine branches. Car. (Schw.; Curt.); N. Y. (Peck).
125. **P. Agassizii** *B. & C.* On bark of *Abies.* Car. (Curt.; Rav.); N. Y. (Peck); N. Hamp. (Bolles).
126. **P. pithya** *Pers.* On twigs of conifers. (*Sarea pithya* Schw.). Penn. (Schw.).

127 **P. cupressina** *Batsch.* (*Helotium thujinum* Peck). Car. (Curt.); N. Y. (Peck); Conn. (Wright); N. Jersey (Ellis).

128. **P. clandestina** *Bull.* On branches. Car. (Curt.); N. Y. (Schw.).

129. **P. turbinulata** *Schw.* On bark of *Castanea*. U. S. (Schw.).

130. **P. luteo-alba** *Schw.* On bark. Bethlehem (Schw.).

131. **P. prolificans** *Schw.* On disc of trunks. Car. (Schw.).

132. **P. aranea** *Not.* On bark. Car. (Rav.).

133. **P. translucida** *B. & C.* On twigs of *Castanea*. Minute, gregarious, cups hemispherical, margin inflexed; stem very short. Penn. (Mich.).

134. **P. caulicola** *Fr.* On stems. Car. (Curt.).

135. **P. stipiticola** *Schw.* On stems. Bethlehem (Schw.).

136. **P. cilearis** *Schw.* (On side of trunks?) Car. (Schw.).

137. **P. albopileata** *Cooke.* On leaves of *Magnolia*, scattered or subgregarious, stipulate, dirty white then ochraceous, stem slender, nearly naked; cup soon flattened, clad externally with short white hairs, disc discolored, sporidia linear minute. (Plant larger than *P. ciliaris*). N. Jersey (Ellis).

138. **P. patula** *P.* On leaves. Car. (Schw.).

139. **P. puberula** *B. & C.* On fallen ash leaves. Cups globose, fawn color, furfuraceous tomentose; stem short, pallid; disc concolorous. Car. (Rav.).

140. **P. fuscescens** *P.* On beech leaves. Car. (Schw.); N. Y. (Peck).

141. **P. pulvurulenta** *Lib.* On fir leaves. N. Y. (Peck).

142. **P. subhirta** *Schw.* On leaves. Bethlehem (Schw.).

143. **P. plagiopus** *Weinm.* On grass. Bethlehem (Schw.).

144. **P. cannea** (*P. arundinariae*, B.). On *Arundinaria*. Small; cups cyathiform; externally white tormentose; stem at length smooth; disc concave, pallid umber. Car. (M. J. B.).

145. **P. sphaerincola** *Schwz.*, on *Sphaeria*. Bethlehem (Schw.).

Sec. 3. Tapesia,

[**P. anomala** *P.*, is *Solenia ochracea*.]

146. **P. arachnoidea** *Schwz.* On moist wood. Bethlehem (Schw.).

147. **P. caesia** *Pers.* On oak wood. Car. (Curt.).

148. **P. stipata** *Fr.* On wood. Bethlehem (Schwz.).

149. **P. discincola** *Schwz.* On disc of trunk. Bethlehem (Schw.).

150. **P. candidofulva** *Schwz.* On bark. Bethlehem (Schw.).

151. **P. Hydrangeae** *Schwz.* On dead *Hydrangea*. Car. (Schw.; Curt.).

152. **P. poriaeformis** *D. C.* On willow. Car. (Schw.).

153. **P. Rosæ** *Pers.* On rose branches. Car. (Schw.; Curt.).

154. **P. aurelia** *Pers.* On rotten wood, &c. Car. (Curt.).

155. **P. annulata** *Holms.* On wood. Bethlehem (Schw.).

156. **P. armeniaca** *Pers.* On stems. Bethlehem (Schw.).

157. **P. Bloxami** *B. & Br.* On rotten wood. Car. (Curt.).

158. **P. daedalea** *Schw.* On bark of *Carya*, *Acer*, &c. Car. (Schwz.; Curt.).

159. **P. griseopulveracea** *Schwz.* On branches. Bethlehem (Schw.).

[**P. pruinata** *Schwz.*, is *Arthonia confluens*.]

160. P. sanguinea *P.* On rotten wood. Maine (E. C. B.) Car. (S.).
161. P. megaloma *Schwz.* On rotten wood. Bethlehem (Schw.).
162. P. fusca *Pers.* On bark of elder. Car. (Schw.); Conn. (Wright); N. Y. (Peck).
163. P. mollisiaeoides *Schw.* On rotten wood. N. Eng. (Frost); N. Y. (Peck); Mass. (Curt.).
164. P. subiculata *Schwz.* On wood. Car. (Curt.); N. Eng. (Sprague).

Sec. 4. Fibrina.

165. P. bolaris *Batsch.* On fir sticks. Car. (Schw.).
166. P. membranata *Schw.* On wood. Bethlehem (Schw.).
167. P. sericea *A. & S.* On wood. Car. (Schw.).
168. P. ceracella *Fr.* On bark. Bethlehem (Schwz.).
169. P. vixvisibilis *Schw.* Interior of chestnut bark. Bethlehem (Schwz.).
170. P. elatina *A. & S.* On *Abies Canadensis.* Car. (Schw.).
171. P. pomicolor *B. & R.* On bark of *Taxodium.* Scattered, subhemispherical, soon open; externally apple color, furfuraceous; disc olivaceous. Car. (Rav.).
172. P. ascoboloidea *Schw.* On bark of *Vitis.* Bethlehem (Schw.).
173. P. lentaginis *Schw.* On branches of *Viburnum.* New Jersey (Schw.).
174. P. opulifoliæ *Schw.* On branches of *Spiraea.* Bethlehem (Schw.).
175. P. roseoalba *Schwz.* On bark of *Cornus.* Car. (Schw.).
176. P. solitaria *Schwz.* On stems. Bethlehem (Schw.).
177. P. cedrina *Cooke.* On branches of *Juniperus Virginiana.* Scattered, pitch brown, externally fibroso-rugose; cups globose, soon open, and cup-shaped (1 m. m.); margin contracted; disc slightly paler; asci cylindrical; sporidia oval (scarcely mature .02 × .01 m. m.); paraphyses profuse, clavate, and slightly curved at the tips. N. Y. (Gerard 48).

Series III. PHIALEA.

Sec. 1. Hymenoscypha.

178. P. tuberosa *Bull.* On the ground. Car. (Curt.).
179. P. ciborioides *Fr.* Amongst leaves. Car. (Curt.).
180. P. gracilipes *Cooke.* On petals of *Magnolia.* Cups membranaceous, brownish, discoid, flattened, stem long, slender, capillary, darker, smooth, equal, springing from a flattened rugose black sclerotium; asci cylindrical; sporidia oblong (stem 1 inch, cup 1 line). N. Jersey (Ellis).
181. P. Peckiana *C.* (*Helotium macrosporum* Peck). On decaying beach wood. N. Y. (Peck).
182. P. imberbis *Bull.* On wood. Bethlehem (Schw.).
183. P. albumina *C. & P.* On wood; chips. N. Y. (Peck).
184. P. crocea *Schwz.* On sticks. Car. (Curt.).
185. P. firma *Pers.* On trunks, sticks, &c. Car. (Schw.; Curt.); N. Eng. (Sprague).

186. P. echinophila *Bull.* On chestnut capsules, &c. Bethlehem (Schw.).

187. P. longipes *C. & P.* On leaf petioles. Yellowish; cups concave (2″–3″) shallow, at length nearly plane; disc sometimes reddish yellow; stem very long (1 inch or more), equal, slender; asci cylindrical; sporidia narrowly elliptical, straight or curved, uninucleate (.0005–.0006 × .0002–.00025 m.). N. Y. (Peck, 301).

188. P. coronata *Bull.* On stems. Car. (Schw.); N. Y. (Peck).

189. P. cyathoidea *Bull.* On herbaceous stems. Car. (Schw.); N. Y. (Peck); N. Eng. (Sprague).

190. P. striata *Nees.* On herbaceous stems. Bethlehem (Schw.).

191. P. nigrescens *Cooke.* On stems of *Erigeron.* Stipitate, dark brown, nearly black, small, firm; cups at first clavate, then expanded and plane; margin elevated; disc paler, dingy gray; stem twice as long as the diameter of the cup, equal below, expanding into the cup; sporidia subfusiform, straight or curved, at first binucleate. New Jersey (Ellis, 1022).

192. P. perula *Pers.* On stems. Bethlehem (Schw.).

193. P. clavata *Pers.* On bark of *Robinia.* Bethlehem (Schwz.).

194. P. campanula *Nees.* On stems of umbellifers. Car. (Schwz.).

195. P. Persoonii *Moug.* On *Equisetum.* N. Y. (Peck).

196. P. pyriformis *Fr.* On mosses. Car. (Schw.).

197. P. subcarnea *C. & P.* On *Jungermannia.* Scattered, very minute, stipitate, pale flesh color, at first clavate; asci cylindrical; sporidia minute, hyaline, linear, spermatozoid. (Cups scarcely visible to the naked eye.) N. Y. (Peck).

[**Peziza capula,** is a *Cyphella.*]

Sec. 2. Mollisia.

198. P. citrinella *Schw.* On wood (*Salix*). (Schw.).

199. P. cinerea *Batsch.* On wood. Car. (Schw.; Curt.); N. Eng. (Frost).

200. P. xanthostigma *Fr.* On wood. Bethlehem (Schw.).

201. P. leucostigma *Fr.* On wood. Ohio (Lea); Bethlehem (Schw.).

202. P. diaphanula *Cooke.* On wood. Gregarious, soft, very minute ($\frac{1}{10}$ m. m.); cups hyaline, whitish, becoming pallid, hemispherical, soon flattened; asci clavate; sporidia elongated, elliptical, uninucleate (.017–.02 × .008 m. m.); paraphyses linear. N. Jersey (Ellis, 2161).

203. P. introspecta *Cooke.* On wood. Gregarious or scattered, minute ($\frac{3}{10}$–$\frac{4}{10}$ m. m.); cups sessile, hemispherical, then cup-shaped and flattened, pallid watery white, externally brownish; asci clavate, stipitate; sporidia narrowly fusiform, 3–4 nucleate, then faintly 3–5 septate (.04–.045 × .008 m. m.); paraphyses linear. N. Jersey (Ellis, 2160).

204. P. dentata *P.* On wood. Bethlehem (Schw.).

205. P. rubella *P.* On wood and bark. Car. (Schw.; Curt.); N. Eng. (Sprague); Ala. (Rav.).

206. P. rufula *Schw.* On wood. Bethlehem (Schw.).

207. P. sanguinolenta *S,* On wood. Bethlehem (Schw.).

208. P. crocitincta *B. & C.*, Grev. 1, pl. 1, fig. —. On wood. Car. (Rav.: Curt.).

209. P. vincta *C. & P.* On decaying wood. N. Y. (Peck).

210. P. pusilla *Fl. Dan.* On trunks. Bethlehem (Schw.).

211. P. uda *P.* On trunks. Car. (Schw.).

212. P. vinosa *A. & S.* On branches. Car. (Schw.).

213. P. vulgaris *Fr.* On wood and bark. Car. (Curt.).

var. SANGUINELLA (*P. sanguinella* B. & C.). Car. (Curt.).

var. MYCETICOLA (*P. myceticola* B. & C.). Conn. (Wright); Car. (Curt.).

214. P. conchella *Schw.* On bark. Bethlehem (Schw.).

215. P. cruenta *Schw.* On bark. Bethlehem (Schw.).

216. P. lividofusca *Fr.* On bark. (Schw.).

217. P. multophthalma *B. & C.* On *Cornus florida.* Minute, hemispherical, externally black, internally vermilion; asci linear; paraphyses flexuose; sporidia oblong, minute, hyaline. Car. (Curt.).

218. P. lacerata *C. & P.* On stems of *Rubus.* N. Y. (Peck).

219. P. fracta *B. & C.* On *Hydrangea.* Minute, erumpent, black, subglobose; mouth punctiform, then expanded and broken; asci clavate; sporidia biseriate, oblong, clavate, hyaline. Va. (Mount); Car. (Rav.).

220. P. fibriseda *B. & C.* On *Ulmus Americana.* Orange, irregular, externally sprinkled with saccharine particles; margin laciniate and broken; disc concave. (fruit imperfect.) Va. (Mount).

221. P. saccharifera *B. & C.* On *Liquidambar.* Soft, gregarious, pallid orange, irregular, externally sprinkled with saccharine particles; margin rather tumid; disc concave. Ala. (Peters).

222. P. Russellii *B. & C.* On bark. Erumpent, fasciculate, brick red; margin obtuse; disc slightly concave; asci clavate; sporidia biseriate, oblong, narrowed toward each end, at length uniseptate (.0006 inches long). N. Eng. (Russell).

223. P. Taxodii *B. & C.* On bark of *Taxodium.* Cups externally black; disc concave, pallid cinereous, margin inflexed; asci clavate, broad. sporidia quaternate, large, obovate, fenestrate (.003 inches). Car. (Curt.).

224. P. Kalmiae *Peck.* On stems of *Kalmia.* (Not having seen this, I cannot tell to what section it belongs.

225. P. cucurbitae *Gerard.* On gourds. N. Y. (Gerard).

226. P. assimilis *C. & P.*, in Grev. 1, pl. 1, fig. —. On *Aster.* N. Y. (Peck).

227. P. erigeronata *Cooke.* On stems of *Erigeron.* Gregarious, soft; cups hemispherical, then flattened, externally smooth, dark umber, becoming black; disc livid cinereous, margin slightly elevated; asci short, broadly clavate; sporidia biseriate or crowded linear-elliptic. New Jersey (Ellis).

228. P. exigua *Cooke.* On stems of *Erigeron.* Scattered, very minute, red, sessile, tremellose; cups hemispherical, then plane or convex; margin nearly obsolete; asci small, lanceolate; sporidia minute, linear, hyaline. N. Jersey (Ellis).

229. P. Dehnii *Rabh.* On living *Potentilla.* N. Y. (Peck).

230. P. pulviscula *Cooke.* On stems of *Phytolacca.* Gregarious, very minute, like grains of sugar, soft, almost tremelloid; cups globose, then flattened, smooth, pallid, watery yellowish white; asci cylindrical; sporidia very minute. Cups $\frac{4}{10}$ m. m. broad; asci .03 × .005 m. m. N. Y. (Gerard).

231. P. Pteridis *Desm.* On stems of *Pteris.* Bethlehem (Schw.).

232. P. atrocinerea *Cooke,* Fungi Britt. On *Polygonum.* N. Y. (Peck, No. 352).

233. P. brassicaecola *B.* On cabbage stems. Thin, expanded, flexuous, externally and internally rufous; sporidia elliptic, concatenate, uninucleate (.0004 inches). N. Eng. (Sprague).

234. P. exidiella *B. & C.* On herbaceous stems. Gregarious, regular, externally and internally rufous yellow; asci clavate; sporidia oblong, narrow, hyaline (.00028 inches). Conn. (Wright).

235. P. dilutella *Fr.* On herbaceous stems. Bethlehem (Schw.).

236. P. Arundinariae *B. & C.* On *Arundinaria.* Flattened, soon deciduous, pitch brown, seated on an orbicular spot-like mycelium; disc pallid. Car. (Curt.).

237. P. stenostoma *B. & C.* On *Andropogon.* Erumpent, elongated, quite black, mouth narrow; asci clavate; sporidia oblong, narrow, uniseriate, binucleate. Car. (Curt.).

238. P. Andropogonis *B. & C.* On *Andropogon.* Cups at first closed, black, at length expanded, margin undulated; disc yellowish bay; asci clavate; sporidia biseriate oblong, narrowed toward each end, triseptate (.0006 inches). Car. (Curt.).

239. P. atriella *Cooke.* On *Andropogon.* Gregarious, sessile, soft, minute; cups at first hemispherical, soon flattened (.02 m. m.), slightly marginate, black, smooth; disc dark cinereous, becoming blackish; asci subclavate; sporidia narrowly fusiform (.03 × .0025 m. m.), with a row of nuclei; paraphyses filiform. N. Jersey (Ells, 2231).

240. Peziza cervinula *Cooke.* On dead *Carex.* Subgregarious, sessile, very minute; cups globose, at first pierced, then open, hemispherical, contracted at the paler margin, externally fawn color (0.1–0.2 m. m.); disc whitish; asci clavate (.04 m. m.); sporidia cylindrical, straight or curved, simple (.012–.014 × .002 m. m.). New Jersey (Ellis, 2226).

241. P. umbonata *P.* On leaves. Car. (Curt.).

242. P. protrusa *B.* On dead leaves of *Magnolia.* Erumpent, punctiform, here and there encircled by the epidermis; mouth flexuose, externally granulated, chestnut color; disc concave, white; sporidia oblong, cylindrical (.0003–.0005 inches). Car. (Curt.). New Jersey (Ellis).

243. P. pinastri *C. & P.* On leaves of *Pinus rigida.* Sessile, soft, scattered, at first sprinkled with an evanescent whitish meal, soon naked and greyish brown hemispherical, then plane; margin often lacerated; disc paler, pallid grey; asci cylindrico-clavate; sporidia narrowly lanceolate, obtuse (.0005–.0006 inches). N. Y. (Peck, 349).

244. P. olivaceolutea *B. & C.* On dead leaves. Minute, erumpent, very deciduous, externally olivaceous, margin whitish; disc concave, pallid yellow. (So deciduous that specimens are preserved with difficulty.) Car. (Curt.).

245. P. axillaris *Nees.* On mosses (*Splachnum*). (Schw.).
[**Peziza Resinae** *Fr.*, is now admitted to be a Lichen. See Grevillea, Vol. 2.]
246. P. Ravenelii *B. & C.* On *Hysterium.* Car. (Curt.).

Sec. 3. PATELLEA.

247. P. compressa *P.* (*P. nigro-punctula* Gerard.) On wood. Car. (Curt.; Schw.); N. Y. (Peck; Gerard).
248. P. corrugata *C. & P.* On wood. N. Y. (Peck).
249. P. viticola *P.* On twigs. (Schw.); N. Y. (Peck).
250. P. philadelphi *Schw.* On twigs. Bethlehem (Schw.).
251. P. corneola *C. & P.* N. Y. (Peck).
252. P. glandicola *Schw.* On nuts. Bethlehem (Schw.).

Gen. 10. HELOTIUM.

a. Pelastea.

1. **H. aciculare** *Bull.* On stumps. Car. (Schw.).
2. **H. subtile** *Fr.* On fir leaves. Penn. (Schw.); New Jersey (Ellis).
3. **H. fimetarium** *P.* On dung. Car. (Schw.).
4. **H. flavovirens** *Fr.* On wood. Bethlehem (Schw.).
5. **H. aureum** *P.* On trunks. Car. (Schw.).
6. **H. serotium** *Fr.* On stick. Car. (Schw.).
7. **H. acericolum** (*Nodularia acericola* Peck). On maple sticks. N. Y. (Peck).
8. **H. fructigenum** *Bull.* On beech mast. Conn. (Wright).
9. **H. lutescens** *Hedw.* On sticks. Car. (Schw.).
10. **H. conigenum** *P.* On fir cones. Penn. (Schw.).

b. Calycella.

11. **H. Tuba** *Bull.* On branches. Car. (Schw.).
12. **H. Buccina** *Fr.* On wood. Car. (Schw.); N. Eng. (Frost).
13. **H. phialea** *Fl. Dan.* On branches. Bethlehem (Schw.).
14. **H. calyculus** *Sow.* On wood. Bethlehem (Schw.).
15. **H. Aspegrenii** *Fr.* On wood. Bethlehem (Schw.).
16. **H. citrinum** *Fr.* On wood. Car. (Schw.; Curt.); Ohio (Lea); N. Y. (Peck; Gerard).
17. **H. confluens** *Schw.* On wood. Bethlehem (Schw.); N. Y. (Gerard).
18. **H. pallescens** *P.* On wood. Car. (Schw.); N. Eng. (Frost).
19. **H. pullatum** *Gerard.* On stems of *Vitis.* Gregarious (1–2 m. m.), dark, dingy ochre when fresh, becoming fuliginous when dry, at first clavate, then somewhat obconical, externally darker; stem short, expanding into the cup; disc plane, concave when dry; asci—. N. Y. (Gerard).
20. **H. vaccinum** *Schum.* On cow dung. (Schw.).
21. **H. chionaeum** *Fr.* On fir leaves. Nazareth (Schw.).
22. **H. rugipes** *Peck.* On rotten wood. N. Y. (Peck).
23. **H. lenticulare** *Bull.* On stumps. Car. (Schw.); N. Y. (Peck).

24. **H. nigripes** *Schum.* On branches. Car. (Schw.).
25. **H. salicellum** *Fr.* On twigs. N. Jersey (Schw.).
26. **H. luteovirens** *Fr.* On branches. Bethlehem (Schw.).
27. **H. ferrugineum** *Schum.* On wood. N. Eng. (Frost); Salem (Schw.).
28. **H. albovirens** *Cooke.* On wood of maple. Scattered or subgregarious; pale greenish white, sessile, attached beneath by white arachnoid threads; cups convex, at length nearly plane, darker when dry (1. m. m.); asci cylindrical; sporidia cylindrical, obtuse, straight or curved, simple (.018 × .003 m. m.). N. Jersey (Ellis, 2227).
29. **H. disciforme** *Fr.* On branches. Bethlehem (Schw.).
30. **H. leguminum** *Schw.* On legumes. Bethlehem (Schw.).
31. **H. herbarum** *P.* On herbaceous stems. Car. (Schw.); N. Y. (Peck); N. Eng. (Murray).
32. **H. pastinacum** *Schw.* On parsnip. Bethlehem (Schw.).
33. **H. limonium** *C. & P.* On stems. N. Y. (Peck).
34. **H. gracile** *C. & P.* On stems. N. Y. (Peck).
35. **H. fagineum** *P.* On twigs. Bethlehem (Schw.).
36. **H. epiphyllum** *P.* On leaves. Car. (Schw.); N. Jersey (Ellis); N. Y. (Peck).
37. **H. naviculaesporum** *Ellis.* On decaying leaves. Whitish, then och raceous, stipitate, cups plane convex (.05 in.), disc slightly darker; asci broad; sporidia boat-shaped (.001 inch), obscurely septate. New Jersey (Ellis).
38. **H. renisporum** *Ellis.* On decaying leaves. Stipitate (½–1 line) convex, then plane (concave when dry); pale cinnamon, or brownish yellow; stem (⅛–¼ in.), darker below; equal slender; asci subcylindrical; sporidia reniform (.0008 in.). New Jersey (Ellis).

Gen. 11. **CHLOROSPLENIUM** *Fr.*

1. **C. Schweinitzii** *Fr.* (*Peziza chlora* Schw.). On wood. Car. (Curt.; Rav.; Schw.); New Jersey (Ellis).
2. **C. repandum** *Fr.* (*Peziza chlorascens* Schw.). On wood.
3. **C. subtortum** *Fr.* (*Peziza torta* Schw.). On old wood. Car. (Schw.).
4. **C. versiformis** *Fr.* On wood. Car. (Curt.); Conn. (Curt.).
5. **C. aeruginosum** *Fr.* On wood. Car. (Curt.).
6. **C. virescens** *Fr.* (*Peziza atrovirens* Fr.). On wood. Car. (Schw.; Curt.).
7. **C. epimyces** *Cooke.* On old *Corticium.* Cups sessile, greenish yellow, then olivaceous, pulverulent (1. line), plane, disc paler; asci clavate; sporidia biseriate, broadly fusiform (.02 × .01 m m). The pulverulent granules are globose and brown under the microscope and about .007 m. m. diameter. New Jersey (Ellis).

Gen. 12. **PSILOPEZIA.** B.

1. **P. nummularia** *B.* On rotten wood. Car. (Curt.); Ohio (Lea.); Penns. (Mich.).
2. **P. Babingtonii** *B.* On rotten wood. Car. (Rav.).
3. **P. flavida** *B. & C.* On dead wood. Alabama (Peters.).

Gen. 13. **RHIZINA** *Fr.*

1. **P. undulata** *Fr.* On the ground. Car. (Curt.).

Order II. **BULGARIACEI.**

Gen. 1. **ASCOBOLUS** *Fr.*

1. **A. furfuraceus** *P.* On cow dung. Car. (Curt.).
2. **A. glaber** *P.* On dung. Car. (Schw.).
3. **A. ciliatus** *Sch.* On dung. N. Y. (Peck); Car. (Rav.).
4. **A. immersus** *P.* On dung.

Gen. 2. **ASCOPHANUS** *Boud.*

1. **A. papillatus** *Boud.* On dung. Car. (Schw.).

Gen. 3. **OMBROPHILA** *Fr.*

1. **O. purpurascens** *Fr.* (*Peziza clavus vara*). N. Jersey (Ellis).
2. **O. violacea** *Fr.* (*Peziza clavus* var. *b.*). N. Jersey (Ellis).
3. **O. lilacina** *Wahl.* (*Peziza lilacina* S.) (Schw.).
4. **O. subaurea** *Cooke.* On cedar twigs in swamps. N. Jersey (Ellis). Turbinate or obconical, pallid then pale orange, subtremelloid; Disc plane (2 m. m.); margin often waved or crenate; asci cylindrical; sporidia fusiform, granular, .03 × .005 m. m.; parayhyses filiform, branched or simple.

Gen. 4. **BULGARIA** *Fr.*

1. **B. globosa** *Fr.* Earth in woods. (Schw.).
2. **B. inquinans** *Fr.* On oak logs. N. Y. (Gerard); Car. (Curt.; Rav.).
3. **B. pulla** *Fr.* On pine wood. (*Lemalis Pulla*, Schw.)
4. **B. rufa** *Schum.* On rotten sticks. Car. (Curt.).
5. **B. sarcoides** *Fr.* On sticks and trunks. Car. (Curt.).
6. **B. purpurea** *Fckl.* On trunks. N. Jersey (Ellis).

Gen. 5. **VIBRISSEA** *Fr.*

1. **V. truncorum** *Fr.* On wood. Car. (Schw.); N. Y. (Peck); N. Eng. (Sprague).

Gen. 6. **SAREA**, *Fr.*

1. **S. brassicaecola** *Schw.* On cabbage stems. (Schw.).

This is an uncertain species and requires examination and verification.

XXIII. On the Genus Agrotis with Additions to the "List of North American Noctuidae"

BY AUG. R. GROTE.

[*Read before this Society March 5th*, 1875.]

In my "List of the Noctuidae" I have stated that my arrangement of the species of this genus was provisional. Up to the present time I am still without sufficient material to enable me to adapt our American species to the classification of Lederer, who divides the European species into nine primary groups (A to I). The principal character used by Lederer is the form of the *genitalia*. He then appears to give weight to the form of the antennae, then to the spinosity of the tibiae, then to the shape of the abdomen and then to the vestiture of the thorax. This latter character is used by Lederer to form a subsection for *linogrisea*, a species not known to me. A proper study of these characters can only be made from large material, and, in its absence, I have only the following notes to make on some of our species.

Agrotis gilvipennis *Grote.*

This species, from Anticosti, is our only described species with yellow secondaries. It is stated by Prof. Zeller to be allied to *Chardinyi*, a Russian species, which I do not know. Lederer gives unarmed fore tibiae for *Chardinyi*. Two of my three specimens of *gilvipennis* seem to me to show spines on the fore tibiae. The tibiae are not strongly spinose in this species. On the third specimen I can see no spines, but the spines frequently break off, and hence we cannot be sure of their absence from an examination of single specimens.